

09/28/83

PATENT
ATTORNEY DOCKET NO. 06618/425001/CIT2956

USING A MICROMACHINED MAGNETOSTATIC
RELAY IN COMMUTATING A DC MOTOR

Abstract

5 A DC motor is commutated by rotating a magnetic rotor to induce a magnetic field in at least one magnetostatic relay in the motor. Each relay is activated in response to the magnetic field to deliver power to at least one corresponding winding connected to the relay. In some cases, each relay delivers power first through a corresponding primary winding and then through a corresponding secondary winding to a common node. Specific examples include a four-pole, three-phase motor in which each relay is activated four times during one rotation of the magnetic rotor.

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660000 FEB 1984